

**Report
Soil Sampling Event
Chem-Safe Environmental, Inc
400 South Main Street
Kittitas, Washington**

July 30, 2013

Prepared for
**Chem-Safe Environmental, Inc
Kittitas, Washington**

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
BACKGROUND	1
FIELD INVESTIGATION	2
Utility Locates and Concrete Coring Activities	2
Soil Sampling	2
ANALYTICAL RESULTS AND FINDINGS	3
USE OF THIS REPORT	5
REFERENCES	6

FIGURES

<u>Figure</u>	<u>Title</u>
1	Vicinity Map
2	Subject Property Detail and Soil Sampling Locations

TABLE

<u>Table</u>	<u>Title</u>
1	Soil Analytical Results

APPENDIX

<u>Appendix</u>	<u>Title</u>
A	Laboratory Analytical Report

INTRODUCTION

This report presents the findings of a soil sampling event conducted for Chem-Safe Environmental, Inc. (Chem-Safe) at the property located at 400 South Main Street in Kittitas, Washington (subject property), as shown on Figure 1. This sampling event was conducted by Landau Associates for Chem-Safe to evaluate potential environmental impacts to the shallow soil beneath the warehouse building formerly utilized to temporarily store chemicals. The sampling event was conducted to address concerns identified by the Washington State Department of Ecology (Ecology) in a letter to PLSA Engineering and Surveying (Ecology 2011) and concerns raised by Kittitas County Health Department (KCHD) site inspection information which indicated the facility was used to temporarily store moderate to dangerous risk waste material. The collection of environmental samples beneath the building has been ordered by the Superior Court of the State of Washington (Court), in the form of an Order of Contempt (Kittitas County Superior Court 2013), to determine whether chemicals may have impacted shallow soil conditions at the facility. The work was conducted based on procedures described in the Sampling and Analysis Plan (SAP) dated May 29, 2013 (Landau Associates 2013). The SAP was developed to satisfy the scope of work provided by the Order of Contempt.

BACKGROUND

The following information is based on our review of available data provided by Ecology, KCHD, interviews with Chem-Safe owners (Mr. Sky Allphin), and a site walk (and interview with a site operator/owner) conducted by Landau Associates on May 20, 2013.

The chemical storage facility is a concrete slab-on-grade building with metal roof and siding. Prior to Chem-Safe operations, the storage building was reportedly used to store agricultural grade fertilizers.

The main portion of the building is approximately 110 by 200 feet (ft) and was used to temporarily store drummed chemicals or chemical-containing materials such as (but not limited to): paints, polychlorinated biphenyls (PCBs; primarily in used light ballasts), waste oil, petroleum products, chlorinated solvents, and acids. The northeastern portion of the main building was designated as the waste-oil drum storage area, while the remainder of the main area was used for multiple purpose storage (no designated storage areas). Storage bays (located along the western portion of the building) were used for excess equipment and supplies and were not used to store chemicals. We understand from available information and interviews with Chem-Safe that a battery storage area mentioned in the Ecology letter was in a separate building and therefore not part of this investigation. According to communications with Mr. Sky Allphin, containers labeled as “PCB waste” were for PCB-containing light ballasts which were sealed and stored in a 55-gallon drum and therefore do not pose a threat of release into the environment.

In addition, the pesticide material identified in the Ecology letter (Ecology 2011) were not in liquid form and posed little risk for impacts to the subsurface; therefore, pesticides were not included in this investigation.

Landau Associates conducted a site walk on May 20, 2013 and observed that currently the building is mostly empty. The building is currently leased as a storage space and contains some miscellaneous construction equipment, a recreational camper trailer, and one drum of diesel fuel. Within the northernmost portion of the storage bays are pallets of unused 55-gallon drums. The top surface of the building concrete slab was observed to be pitted and have several seams from apparent various historical concrete pours. The concrete along the bottom of the exterior metal walls was also observed to be pitted.

FIELD INVESTIGATION

Based on our understanding of previous site operations from the site walk, interviews with the site owner and operators, and review of available environmental information, a total of three borings were advanced to 3 ft below the concrete slab using hand augering techniques. The sampling locations were selected based on designated storage areas (waste-oil drum area) and to provide even spatial distribution within the general storage area of the building. The sampling locations are shown on Figure 2.

UTILITY LOCATES AND CONCRETE CORING ACTIVITIES

Prior to the start of the soil sampling, Landau Associates requested utility location through the Washington Utility Notification Center. On June 18, 2013, a representative from Landau Associates and a private utility locator from Utilities Plus LLC surveyed the three locations for subsurface utilities, to supplement the work by the public utility locators. Interstate Sawing and Drilling cored through the concrete slab at the three identified sampling locations. Concrete cores were drilled with a 12-inch-diameter bit to a depth of 6 inches at all three locations.

SOIL SAMPLING

On June 18, 2013, the three selected boring locations were advanced to 3 ft below the top of the concrete slab using hand augering techniques. A composite soil sample was collected from 2 to 3 ft below the top of slab at each location for laboratory analysis. Groundwater was not encountered during this sampling event; therefore, no groundwater samples were collected.

The soils encountered during drilling activities were logged by a Landau Associates representative in accordance with the ASTM International D2488, *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*, and the Unified Soil Classification System.

Encountered soils consisted primarily of sandy gravel fill to approximately 2 ft, underlain by silty sand to the maximum depth explored of 3 ft below the top of slab. Field screening of the soil was conducted by observing the soil for possible staining and discoloration, odor, measuring vapors using a photoionization detector (PID) meter, and sheen testing for evidence of possible contamination. The results of the field screening did not indicate the presence of contamination.

A composite soil sample was collected from the 2 to 3 ft interval below top of slab from each boring and placed in placed into laboratory-supplied containers, packed in ice, and submitted to ALS Environmental of Everett, Washington under appropriate chain-of-custody procedures. To minimize volatilization, soil samples collected for volatile organic compounds (VOCs) and gasoline-range petroleum hydrocarbons (TPH-G) were collected first using a laboratory-supplied coring device per U.S. Environmental Protection Agency (EPA) Method 5035A. Each coring/sampling device was preset to collect approximately 5 grams of soil.

Soil samples collected from boring B-1 (designated former waste-oil drum storage area) were analyzed for diesel- and oil-range petroleum hydrocarbons (TPH-D and TPH-O) using Ecology method NWTPH-Dx, TPH-G using Ecology method NWTPH-Gx, and benzene, ethylbenzene, toluene, and xylene (BTEX) using EPA Method 8021. Due to our understanding that the remainder of the main building was used to temporarily store a mixture of waste chemicals and products, soil samples collected from the remaining two exploration locations (borings B-2 and B-3) were also analyzed for total mercury using EPA Method 7471, VOCs using EPA Method 8260, and semivolatile organic compounds (SVOCs) using EPA Method 8270.

Soil sampling equipment was decontaminated before collecting each sample to avoid cross-contamination between samples. The decontamination process consisted of washing all non-dedicated or non-disposable equipment with an industrial soap and tap water mixture, followed by a tap water rinse and a final distilled water rinse. Generated decontamination water was temporarily stored onsite in a labeled, 5-gallon sealed bucket.

ANALYTICAL RESULTS AND FINDINGS

Soil analytical results were compared to the Model Toxics Control Act (MTCA) Method A cleanup level for unrestricted land use for applicable results reported above the laboratory reporting limits. The analytical results are presented in Table 1 and the laboratory analytical reports are provided in Appendix A.

The analytical results indicate that no mercury, BTEX, or VOCs were detected at concentrations above the respective laboratory reporting limits. TPH-O was not detected above the laboratory reporting limit with the exception of the sample from boring B-3, which indicated a concentration of 210

milligrams per kilogram (mg/kg), which is below the 2,000 mg/kg cleanup level. TPH-G was not detected above the laboratory reporting limit with the exception of the sample from boring B-1, which indicated a concentration of 11 mg/kg at B-1, which is below the cleanup level (100 mg/kg). SVOC compounds were not detected above the laboratory reporting limit with the exception of bis(2-ethylhexyl)phthalate in the sample from boring B-3, which indicated a concentration of 380 µg/kg. No MTCA Method A cleanup level exists for bis(2-ethylhexyl)phthalate; however, as a point of comparison, the MTCA Method B soil cleanup level for protection of groundwater as a drinking water source (conservative comparison screening level) is 134,000 µg/kg.

Based on laboratory analytical results, the soil sampled from beneath the warehouse building at the three boring locations during this sampling event did not contain concentrations of any of the analytes above the MTCA Method A cleanup levels for unrestricted land use. Based on the available information gathered from provided documents, our site walk observations, and analytical testing results from three soil sampling locations, there has been no release to subsurface soil. Based on these findings, no further action or investigation appears warranted at this time.

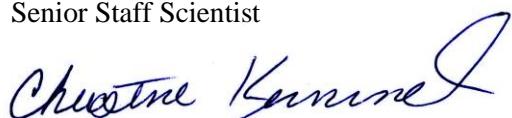
USE OF THIS REPORT

This report has been prepared for the exclusive use of Chem-Safe Environmental, Inc for specific application to the evaluation of soil quality beneath the warehouse building located at 400 South Main Street in Kittitas, Washington that was formerly utilized for temporary chemical storage. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of Chem-Safe and Landau Associates. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Chem-Safe and Landau Associates, shall be at the user's sole risk. Landau Associates warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. We make no other warranty, either express or implied.

This document has been prepared under the supervision and direction of the following key staff.

LANDAU ASSOCIATES, INC


Brett Borgeson
Senior Staff Scientist



Christine Kimmel, L.G.
Associate Geologist

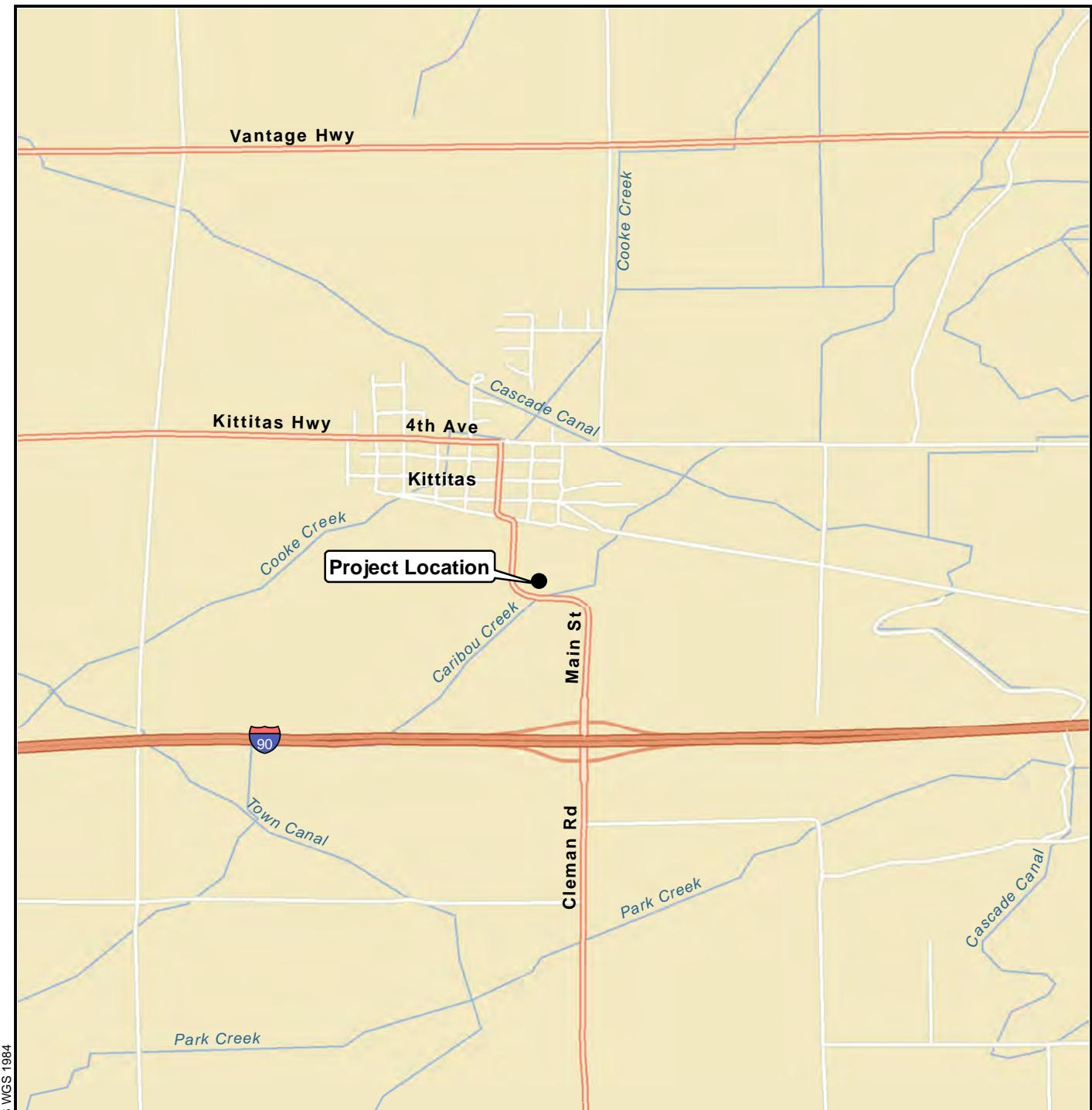
BHB/CBK/kes

REFERENCES

Ecology. 2011. Letter: *Sampling Requirements, Chem-Safe Environmental, Inc, 400 South Main Street, Kittitas, WA 98934, Facility/site ID# 58926155.* From Valerie Bound, Section Manager, Toxics Cleanup Program, Washington State Department of Ecology, to Mr. Brad Card, P.E., PLSA Surveying and Engineering. August 2.

Kittitas County Superior Court. 2013. *Order of Contempt, ABC Holdings, Inc. and Chem-Safe Environmental, LLC vs. Kittitas County, Case No. 11-2-00234-1.* May 6.

Landau Associates. 2013. *Sampling and Analysis Plan. Chem-Safe Environmental Inc. Kittitas, Washington.* May 29.



N

0 0.5 1
Miles



Data Source: Esri 2012.

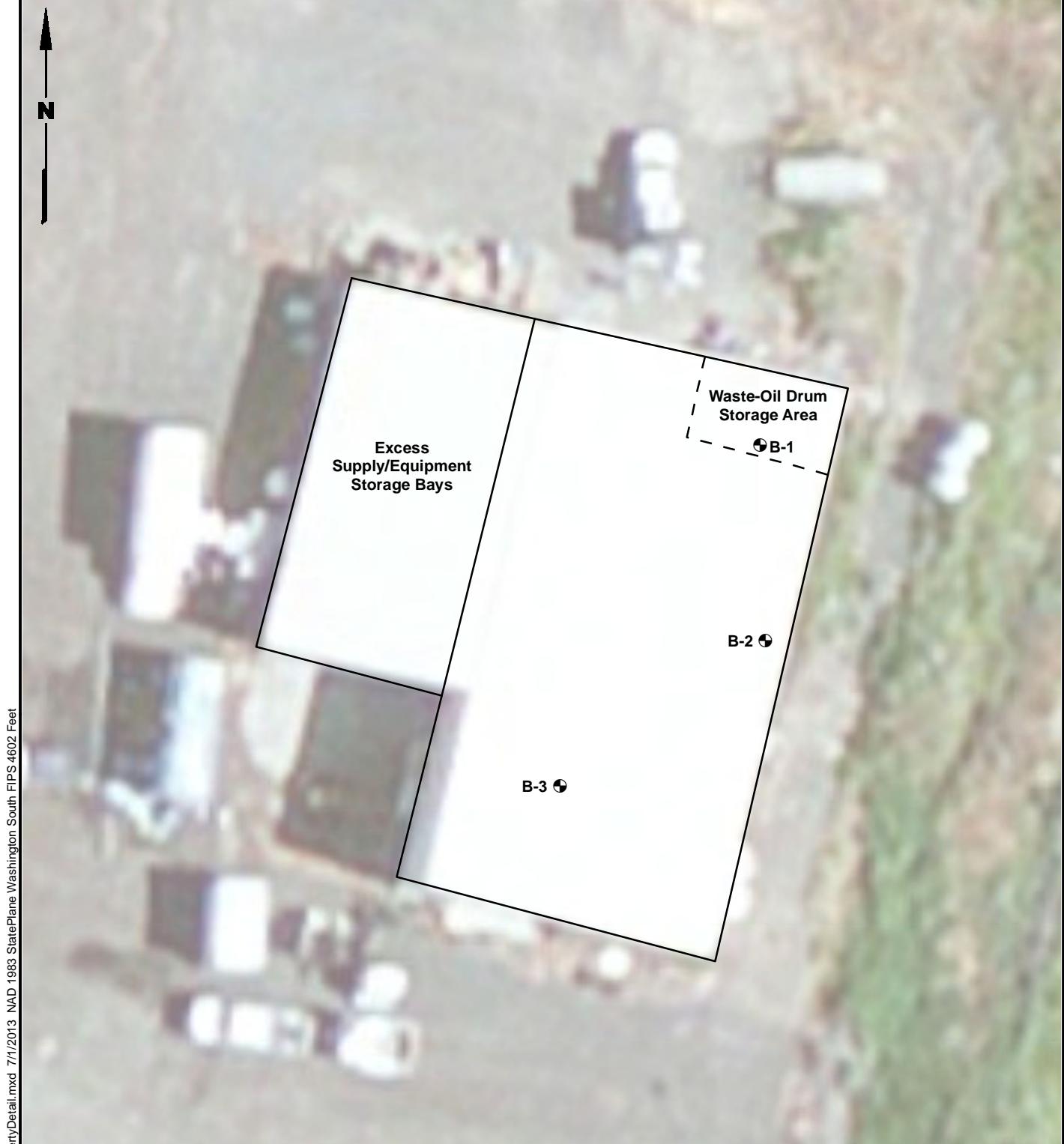
Soil Sampling Event
Chem-Safe Environmental, Inc.
Kittitas, Washington

Vicinity Map

Figure
1



LANDAU
ASSOCIATES



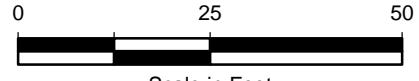
Y:\Projects\1380001\Figure2SubjectPropertyDetail.mxd 7/1/2013 NAD 1983 StatePlane Washington South FIPS_4602 Feet

Legend

- Soil Sampling Locations
- Building Outline

Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Data Sources: Kittitas County, GIS; Esri World Imagery.



LANDAU
ASSOCIATES

Soil Sampling Event
Chem-Safe Environmental, Inc
Kittitas, Washington

**Subject Property Detail and
Soil Sampling Locations**

Figure
2

TABLE 1
SOIL ANALYTICAL RESULTS
CHEM-SAFE

Page 1 of 3

	MTCA Method A Soil Cleanup Levels(a)	B-1 3 feet EV13060096-01 06/18/2013	B-2 3 feet EV13060096-02 06/18/2013	B-3 3 feet EV13060096-03 06/18/2013
TOTAL PETROLEUM HYDROCARBONS (mg/kg)				
NWTPH-Dx				
Diesel	2000	25 U	25 U	25 U
Oil	2000	50 U	50 U	210
NWTPH-Gx	100	11	3.0 U	3.0 U
TOTAL METALS (mg/kg)				
Method SW 7471				
Mercury		NA	0.020 U	0.020 U
BTEX (mg/kg)				
Method SW8021				
Benzene		0.030 U	NA	NA
Toluene		0.050 U	NA	NA
Ethylbenzene		0.050 U	NA	NA
Total Xylenes		0.20 U	NA	NA
VOLATILES (µg/kg)				
Method SW8260C				
Dichlorodifluoromethane		NA	10 U	10 U
Chloromethane		NA	10 U	10 U
Vinyl Chloride		NA	10 U	10 U
Bromomethane		NA	10 U	10 U
Chloroethane		NA	10 U	10 U
Carbon Tetrachloride		NA	10 U	10 U
Trichlorofluoromethane		NA	10 U	10 U
Carbon Disulfide		NA	10 U	10 U
Acetone		NA	50 U	50 U
1,1-Dichloroethene		NA	10 U	10 U
Methylene Chloride		NA	20 U	20 U
Acrylonitrile		NA	50 U	50 U
Methyl t-butyl ether		NA	10 U	10 U
Trans-1,2-Dichloroethene		NA	10 U	10 U
1,1-Dichloroethane		NA	10 U	10 U
2-Butanone		NA	50 U	50 U
Cis-1,2-Dichloroethene		NA	10 U	10 U
2,2-Dichloropropane		NA	10 U	10 U
Bromochloromethane		NA	10 U	10 U
Chloroform		NA	10 U	10 U
1,1,1-Trichloroethane		NA	10 U	10 U
1,1-Dichloropropene		NA	10 U	10 U
1,2-Dichloroethane		NA	10 U	10 U
Benzene		NA	5.0 U	5.0 U
Trichloroethene		NA	10 U	10 U
1,2-Dichloropropane		NA	10 U	10 U
Dibromomethane		NA	10 U	10 U
Bromodichloromethane		NA	10 U	10 U
Trans-1,3-Dichloropropene		NA	10 U	10 U
4-Methyl-2-Pentanone		NA	50 U	50 U
Toluene		NA	10 U	10 U
Cis-1,3-Dichloropropene		NA	10 U	10 U
1,1,2-Trichloroethane		NA	10 U	10 U
2-Hexanone		NA	50 U	50 U
1,3-Dichloropropane		NA	10 U	10 U
Tetrachloroethene		NA	10 U	10 U
Dibromochloromethane		NA	10 U	10 U

TABLE 1
SOIL ANALYTICAL RESULTS
CHEM-SAFE

Page 2 of 3

MTCA Method A Soil Cleanup Levels(a)	B-1 3 feet EV13060096-01 06/18/2013	B-2 3 feet EV13060096-02 06/18/2013	B-3 3 feet EV13060096-03 06/18/2013
1,2-Dibromoethane	NA	5.0 U	5.0 U
Chlorobenzene	NA	10 U	10 U
1,1,1,2-Tetrachloroethane	NA	10 U	10 U
Ethylbenzene	NA	10 U	10 U
m, p-Xylene	NA	20 U	20 U
Styrene	NA	10 U	10 U
o-Xylene	NA	10 U	10 U
Bromoform	NA	10 U	10 U
Isopropylbenzene (Cumene)	NA	10 U	10 U
1,1,2,2-Tetrachloroethane	NA	10 U	10 U
1,2,3-Trichloropropane	NA	10 U	10 U
Bromobenzene	NA	10 U	10 U
n-Propylbenzene	NA	10 U	10 U
2-Chlorotoluene	NA	10 U	10 U
1,3,5-Trimethylbenzene	NA	10 U	10 U
4-Chlorotoluene	NA	10 U	10 U
Tert-Butylbenzene	NA	10 U	10 U
1,2,4-Trimethylbenzene	NA	10 U	10 U
Sec-Butylbenzene	NA	10 U	10 U
p-Isopropyltoluene	NA	10 U	10 U
1,3-Dichlorobenzene	NA	10 U	10 U
1,4-Dichlorobenzene	NA	10 U	10 U
n-Butylbenzene	NA	10 U	10 U
1,2-Dichlorobenzene	NA	10 U	10 U
1,2-Dibromo-3-Chloropropane	NA	50 U	50 U
1,2,4-Trichlorobenzene	NA	10 U	10 U
Hexachlorobutadiene	NA	10 U	10 U
Naphthalene	NA	10 U	10 U
1,2,3-Trichlorobenzene	NA	10 U	10 U
SEMIVOLATILES (µg/kg)			
Method SW8270D			
Pyridine	NA	200 U	200 U
N-Nitrosodimethylamine	NA	100 U	100 U
Phenol	NA	100 U	100 U
Aniline	NA	100 U	100 U
Bis(2-Chloroethyl)Ether	NA	250 U	250 U
2-Chlorophenol	NA	250 U	250 U
1,3-Dichlorobenzene	NA	100 U	100 U
1,4-Dichlorobenzene	NA	100 U	100 U
Benzyl Alcohol	NA	100 U	100 U
1,2-Dichlorobenzene	NA	100 U	100 U
2-Methylphenol	NA	100 U	100 U
Bis(2-chloroisopropyl) ether	NA	250 U	250 U
3&4-Methylphenol	NA	100 U	100 U
N-Nitrosodi-n-propylamine	NA	250 U	250 U
Hexachloroethane	NA	100 U	100 U
Nitrobenzene	NA	100 U	100 U
Isophorone	NA	100 U	100 U
2-Nitrophenol	NA	100 U	100 U
2,4-Dimethylphenol	NA	100 U	100 U
Benzoic Acid	NA	1000 U	1000 U
Bis(2-Chloroethoxy)Methane	NA	250 U	250 U
2,4-Dichlorophenol	NA	500 U	500 U
1,2,4-Trichlorobenzene	NA	100 U	100 U
Naphthalene	NA	100 U	100 U
4-Chloroaniline	NA	1000 U	1000 U
2,6-Dichlorophenol	NA	250 U	250 U
Hexachlorobutadiene	NA	500 U	500 U

TABLE 1
SOIL ANALYTICAL RESULTS
CHEM-SAFE

Page 3 of 3

MTCA Method A Soil Cleanup Levels(a)	B-1 3 feet EV13060096-01 06/18/2013	B-2 3 feet EV13060096-02 06/18/2013	B-3 3 feet EV13060096-03 06/18/2013
4-Chloro-3-Methylphenol	NA	500 U	500 U
2-Methylnaphthalene	NA	250 U	250 U
1-Methylnaphthalene	NA	250 U	250 U
Hexachlorocyclopentadiene	NA	100 U	100 U
2,4,6-Trichlorophenol	NA	100 U	100 U
2,4,5-Trichlorophenol	NA	100 U	100 U
2-Chloronaphthalene	NA	100 U	100 U
2-Nitroaniline	NA	100 U	100 U
Acenaphthylene	NA	100 U	100 U
Dimethyl phthalate	NA	100 U	100 U
2,6-Dinitrotoluene	NA	100 U	100 U
Acenaphthene	NA	100 U	100 U
3-Nitroaniline	NA	1000 U	1000 U
2,4-Dinitrophenol	NA	100 U	100 U
4-Nitrophenol	NA	100 U	100 U
Dibenzofuran	NA	100 U	100 U
2,4-Dinitrotoluene	NA	100 U	100 U
2,3,4,6-Tetrachlorophenol	NA	100 U	100 U
Diethyl phthalate	NA	100 U	100 U
Fluorene	NA	100 U	100 U
4-Chlorophenyl-Phenylether	NA	100 U	100 U
4-Nitroaniline	NA	250 U	250 U
4,6-Dinitro-2-Methylphenol	NA	100 U	100 U
N-Nitrosodiphenylamine	NA	100 U	100 U
Azobenzene	NA	100 U	100 U
4-Bromophenyl phenyl ether	NA	100 U	100 U
Hexachlorobenzene	NA	100 U	100 U
Pentachlorophenol	NA	500 U	500 U
Phenanthrene	NA	100 U	100 U
Anthracene	NA	100 U	100 U
Carbazole	NA	250 U	250 U
Di-N-Butylphthalate	NA	100 U	100 U
Fluoranthene	NA	100 U	100 U
Pyrene	NA	100 U	100 U
Butyl benzyl phthalate	NA	100 U	100 U
3,3'-Dichlorobenzidine	NA	250 U	250 U
Benz[a]anthracene	NA	100 U	100 U
Chrysene	NA	100 U	100 U
Bis(2-Ethylhexyl) Phthalate	NA	100 U	380
Di-N-Octyl Phthalate	NA	100 U	100 U
Benzo(b)fluoranthene	NA	100 U	100 U
Benzo(k)fluoranthene	NA	100 U	100 U
Benzo(a)pyrene	NA	100 U	100 U
Indeno(1,2,3-cd)pyrene	NA	100 U	100 U
Dibenzo(a,h)anthracene	NA	100 U	100 U
Benzo(ghi)perylene	NA	100 U	100 U

(a) Results compared to Model Toxics Control Act (MTCA) Method A soil cleanup levels for unrestricted land use)

U = Indicates the compound was not detected at the reported concentration

NA = Not Available

Bold = Detected compound.

--- = No MTCA Method A Soil Cleanup Level available.

APPENDIX A

Laboratory Analytical Report



July 1, 2013

Mr. Brett Borgesan
Landau Associates, Inc.
130 - 2nd Ave. S.
Edmonds, WA 98020

Dear Mr. Borgesan,

On June 19th, 3 samples were received by our laboratory and assigned our laboratory project number EV13060096. The project was identified as your Chem-Safe / #1380001.010. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

Page 1

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.
130 - 2nd Ave. S.
Edmonds, WA 98020

DATE: 7/1/2013
ALS JOB#: EV13060096
ALS SAMPLE#: -01

CLIENT CONTACT: Brett Borgesan

CLIENT PROJECT: Chem-Safe / #1380001.010

DATE RECEIVED: 6/19/2013

CLIENT SAMPLE ID: B-1 3 feet

COLLECTION DATE: 6/18/2013 9:30:00 AM

WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	11	3.0	1	MG/KG	06/19/2013	DLC
Benzene	EPA-8021	U	0.030	1	MG/KG	06/19/2013	DLC
Toluene	EPA-8021	U	0.050	1	MG/KG	06/19/2013	DLC
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	06/19/2013	DLC
Xylenes	EPA-8021	U	0.20	1	MG/KG	06/19/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/19/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/19/2013	LAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.9	06/19/2013	DLC
TFT	EPA-8021	82.5	06/19/2013	DLC
C25	NWTPH-DX w/ SGA	64.1	06/19/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains highly weathered gasoline.



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
130 - 2nd Ave. S. ALS JOB#: EV13060096
Edmonds, WA 98020 ALS SAMPLE#: -02
CLIENT CONTACT: Brett Borgesan DATE RECEIVED: 6/19/2013
CLIENT PROJECT: Chem-Safe / #1380001.010 COLLECTION DATE: 6/18/2013 10:00:00 AM
CLIENT SAMPLE ID B-2 3 feet WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	ANALYSIS	ANALYSIS	
			LIMITS	FACTOR	UNITS	DATE	BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/19/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/19/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/19/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/24/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/24/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
130 - 2nd Ave. S. ALS JOB#: EV13060096
Edmonds, WA 98020 ALS SAMPLE#: -02
CLIENT CONTACT: Brett Borgesan DATE RECEIVED: 6/19/2013
CLIENT PROJECT: Chem-Safe / #1380001.010 COLLECTION DATE: 6/18/2013 10:00:00 AM
CLIENT SAMPLE ID: B-2 3 feet WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/24/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/24/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Pyridine	EPA-8270	U	200	1	UG/KG	06/19/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. **DATE:** 7/1/2013
 130 - 2nd Ave. S. **ALS JOB#:** EV13060096
 Edmonds, WA 98020 **ALS SAMPLE#:** -02
CLIENT CONTACT: Brett Borgesan **DATE RECEIVED:** 6/19/2013
CLIENT PROJECT: Chem-Safe / #1380001.010 **COLLECTION DATE:** 6/18/2013 10:00:00 AM
CLIENT SAMPLE ID: B-2 3 feet **WDOE ACCREDITATION:** C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	06/19/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	06/19/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Naphthalene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	06/19/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	06/19/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	06/19/2013	LAP
2-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
1-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Acenaphthylene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Acenaphthene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	06/19/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
 130 - 2nd Ave. S. ALS JOB#: EV13060096
 Edmonds, WA 98020 ALS SAMPLE#: -02
 CLIENT CONTACT: Brett Borgesan DATE RECEIVED: 6/19/2013
 CLIENT PROJECT: Chem-Safe / #1380001.010 COLLECTION DATE: 6/18/2013 10:00:00 AM
 CLIENT SAMPLE ID: B-2 3 feet WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Fluorene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	06/19/2013	LAP
Phenanthrene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Anthracene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Carbazole	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Fluoranthene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Pyrene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Chrysene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	06/21/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	87.9	06/19/2013	DLC
C25	NWTPH-DX w/ SGA	91.1	06/19/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	101	06/24/2013	GAP
Toluene-d8	EPA-8260	113	06/24/2013	GAP
4-Bromofluorobenzene	EPA-8260	110	06/24/2013	GAP
2-Fluorophenol	EPA-8270	77.7	06/19/2013	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
130 - 2nd Ave. S. ALS JOB#: EV13060096
Edmonds, WA 98020 ALS SAMPLE#: -02
CLIENT CONTACT: Brett Borgesan DATE RECEIVED: 6/19/2013
CLIENT PROJECT: Chem-Safe / #1380001.010 COLLECTION DATE: 6/18/2013 10:00:00 AM
CLIENT SAMPLE ID: B-2 3 feet WDOE ACCREDITATION: C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Phenol-d5	EPA-8270	71.7	06/19/2013	LAP
Nitrobenzene-d5	EPA-8270	70.6	06/19/2013	LAP
2-Fluorobiphenyl	EPA-8270	76.3	06/19/2013	LAP
2,4,6-Tribromophenol	EPA-8270	90.6	06/19/2013	LAP
Terphenyl-d14	EPA-8270	91.4	06/19/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/1/2013
		ALS JOB#:	EV13060096
		ALS SAMPLE#:	-03
CLIENT CONTACT:	Brett Borgesan	DATE RECEIVED:	6/19/2013
CLIENT PROJECT:	Chem-Safe / #1380001.010	COLLECTION DATE:	6/18/2013 10:35:00 AM
CLIENT SAMPLE ID	B-3 3 feet	WDOE ACCREDITATION:	C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	ANALYSIS	ANALYSIS	
			LIMITS	FACTOR	UNITS	DATE	BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/19/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/19/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	210	50	1	MG/KG	06/19/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/24/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/24/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
130 - 2nd Ave. S. ALS JOB#: EV13060096
Edmonds, WA 98020 ALS SAMPLE#: -03
CLIENT CONTACT: Brett Borgesan DATE RECEIVED: 6/19/2013
CLIENT PROJECT: Chem-Safe / #1380001.010 COLLECTION DATE: 6/18/2013 10:35:00 AM
CLIENT SAMPLE ID: B-3 3 feet WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/24/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/24/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Pyridine	EPA-8270	U	200	1	UG/KG	06/19/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. **DATE:** 7/1/2013
 130 - 2nd Ave. S. **ALS JOB#:** EV13060096
 Edmonds, WA 98020 **ALS SAMPLE#:** -03
CLIENT CONTACT: Brett Borgesan **DATE RECEIVED:** 6/19/2013
CLIENT PROJECT: Chem-Safe / #1380001.010 **COLLECTION DATE:** 6/18/2013 10:35:00 AM
CLIENT SAMPLE ID: B-3 3 feet **WDOE ACCREDITATION:** C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	06/19/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	06/19/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Naphthalene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	06/19/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	06/19/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	06/19/2013	LAP
2-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
1-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Acenaphthylene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Acenaphthene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	06/19/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
130 - 2nd Ave. S. ALS JOB#: EV13060096
Edmonds, WA 98020 ALS SAMPLE#: -03
CLIENT CONTACT: Brett Borgesan DATE RECEIVED: 6/19/2013
CLIENT PROJECT: Chem-Safe / #1380001.010 COLLECTION DATE: 6/18/2013 10:35:00 AM
CLIENT SAMPLE ID: B-3 3 feet WDOE ACCREDITATION: C601

DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Fluorene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	06/19/2013	LAP
Phenanthrene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Anthracene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Carbazole	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Fluoranthene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Pyrene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	06/19/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Chrysene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	380	100	1	UG/KG	06/19/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	100	1	UG/KG	06/19/2013	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	06/21/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	92.4	06/19/2013	DLC
C25	NWTPH-DX w/ SGA	94.3	06/19/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	102	06/24/2013	GAP
Toluene-d8	EPA-8260	101	06/24/2013	GAP
4-Bromofluorobenzene	EPA-8260	111	06/24/2013	GAP
2-Fluorophenol	EPA-8270	72.8	06/19/2013	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
130 - 2nd Ave. S. ALS JOB#: EV13060096
Edmonds, WA 98020 ALS SAMPLE#: -03
CLIENT CONTACT: Brett Borgesan DATE RECEIVED: 6/19/2013
CLIENT PROJECT: Chem-Safe / #1380001.010 COLLECTION DATE: 6/18/2013 10:35:00 AM
CLIENT SAMPLE ID: B-3 3 feet WDOE ACCREDITATION: C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Phenol-d5	EPA-8270	66.5	06/19/2013	LAP
Nitrobenzene-d5	EPA-8270	65.4	06/19/2013	LAP
2-Fluorobiphenyl	EPA-8270	70.8	06/19/2013	LAP
2,4,6-Tribromophenol	EPA-8270	86.4	06/19/2013	LAP
Terphenyl-d14	EPA-8270	77.9	06/19/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.
Chromatogram indicates that it is likely that sample contains lube oil.

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. **DATE:** 7/1/2013
 130 - 2nd Ave. S. **ALS SDG#:** EV13060096
 Edmonds, WA 98020 **WDOE ACCREDITATION:** C601
CLIENT CONTACT: Brett Borgesan
CLIENT PROJECT: Chem-Safe / #1380001.010

LABORATORY BLANK RESULTS
MBG-061413S - Batch 3824 - Soil by NWTPH-GX

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	ANALYSIS	
			LIMITS		UNITS	DATE
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/15/2013

MB-061413S - Batch 3824 - Soil by EPA-8021

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	ANALYSIS	
			LIMITS		UNITS	DATE
Benzene	EPA-8021	U	0.030	1	MG/KG	06/15/2013
Toluene	EPA-8021	U	0.050	1	MG/KG	06/15/2013
Ethylbenzene	EPA-8021	U	0.050	1	MG/KG	06/15/2013
Xylenes	EPA-8021	U	0.20	1	MG/KG	06/15/2013

MB-061213S - Batch 3813 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	ANALYSIS	
			LIMITS		UNITS	DATE
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	06/12/2013
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	06/12/2013

MB-062413S - Batch 3851 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	ANALYSIS	
			LIMITS		UNITS	DATE
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/24/2013
Chloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/24/2013
Bromomethane	EPA-8260	U	10	1	UG/KG	06/24/2013
Chloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/24/2013
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/24/2013
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/24/2013
Acetone	EPA-8260	U	50	1	UG/KG	06/24/2013
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/24/2013
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/24/2013
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/24/2013
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013
2-Butanone	EPA-8260	U	50	1	UG/KG	06/24/2013
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/24/2013
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.
 130 - 2nd Ave. S.
 Edmonds, WA 98020

DATE: 7/1/2013
ALS SDG#: EV13060096
WDOE ACCREDITATION: C601

CLIENT CONTACT: Brett Borgesan
CLIENT PROJECT: Chem-Safe / #1380001.010

LABORATORY BLANK RESULTS
MB-062413S - Batch 3851 - Soil by EPA-8260

Chloroform	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/24/2013	GAP
Trichloroethylene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/24/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/24/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. **DATE:** 7/1/2013
 130 - 2nd Ave. S. **ALS SDG#:** EV13060096
 Edmonds, WA 98020 **WDOE ACCREDITATION:** C601
CLIENT CONTACT: Brett Borgesan
CLIENT PROJECT: Chem-Safe / #1380001.010

LABORATORY BLANK RESULTS
MB-062413S - Batch 3851 - Soil by EPA-8260

N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/24/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/24/2013	GAP

MB-061213S - Batch 3814 - Soil by EPA-8270

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	06/12/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	06/12/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Naphthalene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	06/12/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
Hexachlorobutadiene	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	06/12/2013	LAP
2-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP

CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. **DATE:** 7/1/2013
 130 - 2nd Ave. S. **ALS SDG#:** EV13060096
 Edmonds, WA 98020 **WDOE ACCREDITATION:** C601
CLIENT CONTACT: Brett Borgesan
CLIENT PROJECT: Chem-Safe / #1380001.010

LABORATORY BLANK RESULTS
MB-061213S - Batch 3814 - Soil by EPA-8270

1-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Acenaphthylene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Acenaphthene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	06/12/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Fluorene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Pentachlorophenol	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
Phenanthrone	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Anthracene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Carbazole	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Fluoranthene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Pyrene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	06/12/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Chrysene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
130 - 2nd Ave. S. ALS SDG#: EV13060096
Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Brett Borgesan
CLIENT PROJECT: Chem-Safe / #1380001.010

LABORATORY BLANK RESULTS

MB-061213S - Batch 3814 - Soil by EPA-8270

Benzo[A]Pyrene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	100	1	UG/KG	06/12/2013	LAP

MBLK-6212013 - Batch R81806 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	ANALYSIS	
			LIMITS		UNITS	DATE
Mercury	EPA-7471	U	0.020	1	MG/KG	06/21/2013



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
130 - 2nd Ave. S. ALS SDG#: EV13060096
Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Brett Borgesan
CLIENT PROJECT: Chem-Safe / #1380001.010

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 3824 - Soil by NWTPH-GX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	68.5			06/15/2013	DLC
TPH-Volatile Range - BSD	NWTPH-GX	71.9	5		06/15/2013	DLC

ALS Test Batch ID: 3824 - Soil by EPA-8021

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8021	95.6			06/15/2013	DLC
Benzene - BSD	EPA-8021	101	5		06/15/2013	DLC
Toluene - BS	EPA-8021	97.2			06/15/2013	DLC
Toluene - BSD	EPA-8021	98.2	1		06/15/2013	DLC
Ethylbenzene - BS	EPA-8021	93.6			06/15/2013	DLC
Ethylbenzene - BSD	EPA-8021	94.8	1		06/15/2013	DLC
Xylenes - BS	EPA-8021	96.4			06/15/2013	DLC
Xylenes - BSD	EPA-8021	97.2	1		06/15/2013	DLC

ALS Test Batch ID: 3813 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	102			06/12/2013	EBS
TPH-Diesel Range - BSD	NWTPH-DX	101	1		06/12/2013	EBS

ALS Test Batch ID: 3851 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	85.9			06/24/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260	97.7	13		06/24/2013	GAP
Benzene - BS	EPA-8260	98.3			06/24/2013	GAP
Benzene - BSD	EPA-8260	101	3		06/24/2013	GAP
Trichloroethene - BS	EPA-8260	95.7			06/24/2013	GAP
Trichloroethene - BSD	EPA-8260	98.9	3		06/24/2013	GAP
Toluene - BS	EPA-8260	92.8			06/24/2013	GAP
Toluene - BSD	EPA-8260	96.1	3		06/24/2013	GAP
Chlorobenzene - BS	EPA-8260	87.7			06/24/2013	GAP
Chlorobenzene - BSD	EPA-8260	90.0	3		06/24/2013	GAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/1/2013
130 - 2nd Ave. S. ALS SDG#: EV13060096
Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Brett Borgesan
CLIENT PROJECT: Chem-Safe / #1380001.010

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 3814 - Soil by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	86.2			06/12/2013	LAP
Phenol - BSD	EPA-8270	86.8	1		06/12/2013	LAP
2-Chlorophenol - BS	EPA-8270	91.1			06/12/2013	LAP
2-Chlorophenol - BSD	EPA-8270	91.5	1		06/12/2013	LAP
1,4-Dichlorobenzene - BS	EPA-8270	83.1			06/12/2013	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	85.1	2		06/12/2013	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	73.6			06/12/2013	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	81.5	10		06/12/2013	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	90.4			06/12/2013	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	92.4	2		06/12/2013	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	95.4			06/12/2013	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	101	6		06/12/2013	LAP
Acenaphthene - BS	EPA-8270	91.9			06/12/2013	LAP
Acenaphthene - BSD	EPA-8270	94.4	3		06/12/2013	LAP
4-Nitrophenol - BS	EPA-8270	96.6			06/12/2013	LAP
4-Nitrophenol - BSD	EPA-8270	96.3	0		06/12/2013	LAP
2,4-Dinitrotoluene - BS	EPA-8270	92.1			06/12/2013	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	95.0	3		06/12/2013	LAP
Pentachlorophenol - BS	EPA-8270	91.4			06/12/2013	LAP
Pentachlorophenol - BSD	EPA-8270	90.5	1		06/12/2013	LAP
Pyrene - BS	EPA-8270	96.2			06/12/2013	LAP
Pyrene - BSD	EPA-8270	98.8	3		06/12/2013	LAP

ALS Test Batch ID: R81806 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	94.0			06/21/2013	RAL
Mercury - BSD	EPA-7471	96.0	2		06/21/2013	RAL

APPROVED BY

A handwritten signature in black ink, appearing to read "Brett Borgesan".

Laboratory Director

ALS ENVIRONMENTAL

Sample Receiving Checklist

Client: Landau Associates

ALS Job #: EV13060096

Project: Chem-Safe / #1380001.010

Received Date: 6/19/13 Received Time: 11:05 By: S.

Type of shipping container: Cooler Box Other

Shipped via: UPS/FedEx US Postal Service Courier Hand Delivered By Rick

Were custody seals on outside of sample? Yes No N/A

If yes, how many? 1 Where? outside cooler

Custody seal date: 6/19/13 Seal name: Landau

Was Chain of Custody properly filled out (ink, signed, dated, etc.)?

Did all bottles have labels?

Did all bottle labels and tags agree with Chain of Custody?

Were samples received within hold time?

Did all bottles arrive in good condition (unbroken, etc.)?

Was sufficient amount of sample sent for the tests indicated?

Was correct preservation added to samples?

If no, Sample Control added preservative to the following:

<u>Sample Number</u>	<u>Reagent</u>	<u>Analyte</u>
----------------------	----------------	----------------

Received 2 5035 Low kits
and 1 5035 High kit.

Were VOA vials checked for absence of air bubbles?

Bubbles present in sample #: _____

Temperature of cooler upon receipt: 3.8°C on ice Cold Cool Ambient N/A

Explain any discrepancies: _____

Was client contacted? _____ Who was called? _____ By whom? _____ Date: _____

Outcome of call: _____

Seattle/Edmonds (425) 778-0907
 Tacoma (253) 926-2493
 Spokane (509) 327-9737
 Portland (503) 542-1080

EV13060096

Chain-of-Custody Record

Testing Parameters								Turnaround Time
Project Name		Chem-Safe		Project No.		138ccal.010		<input checked="" type="checkbox"/> Standard
Project Location/Event		Kitting						<input type="checkbox"/> Accelerated
Sampler's Name		Nora Negrette						<input type="checkbox"/>
Project Contact		Brett Bogen						
Send Results To		B. Burgesson, Sky Alpha						
Sample I.D.		Date	Time	Matrix	No. of Containers	Observations/Comments		
B-1		3 feet	6/18/13	9:30	Soil	2	X	X
B-2		3 feet		10:00		4	X	X
B-3		3 feet		10:35		4	X	X
<p><i>Notes</i></p> <p>* NwTPH-GX - 8021 BTEX</p> <p><i>Mercury only</i></p>								
Relinquished by				Received by		Method of Shipment		
<u>Nora Negrette</u>				<u>Shawn Robinson</u>				
Signature Nora Negrette				Signature Shawn Robinson		Signature		
Printed Name Larivee Associates				Printed Name AJS		Printed Name		
Company Larivee Associates				Company AJS		Company		
Date 6/19/13 Time 10:00				Date 6/19/13 Time 11:05		Date _____ Time _____		